

Concrete Products Task Group Meeting Minutes

January 8, 2015, 10:00am – 12:00pm, Translab Room 514, Structural Materials Annex

Attendees: Dan Speer, Bill Farnbach, Chuck Suszko, Charley Rea, Kirk McDonald, Keith Hoffman, Deepak Maskey, Cliff Ohlwiler, Mark Hill, Charles Stuart – SWCPA (for Bruce Carter)

Absent: Bruce Carter (Mr. Stuart served as proxy)

a. Welcome

Mr. Speer welcomed all the members of Concrete Products Task Group and thanked everyone for participating. The group went through a round of introductions.

b. Review of Agenda and Action Items from Last Meeting

The action items were reviewed from the previous 2014 Task Group meetings. No significant issues were noted.

Mr. Suszko provided a briefing of the status on the “Coffman et al” response to Industry. He noted that the response was being handled through an external project team that has been formed in conjunction with Industry and various Department functional units. Mr. Suszko noted he would provide further updates as resolutions are determined.

It was also noted by Industry that there were no example mix designs that had been rejected for lack of annual aggregate source testing information in recent months. Industry noted that they would pass along any examples if they occurred in the coming weeks.

On the topic of the MPQP Updates tied to the Recycled Concrete activity, it was noted by Mr. Suszko that final approval of the updated document is still pending and that an Errata is currently being created to be added into the MPQP.

Mr. Ohlwiler gave a quick overview of the Precast STG’s ASTM C1567 testing topic. He noted that there was a desire within the Precast Industry to request a specification change in Section 90 on this topic, requesting that test data authorized by the Department no more than 5 years before the 1st day of the Contract be authorized for the entire Contract (in lieu of the current 3 years). A decision was made to add this activity to the Bin List for future consideration.

It was noted that the Aggregate Source Testing issues activity was still pending, but was being discussed at external Caltrans Testing Task Force meetings. This was part of a larger initiative being discussed between industry and CT, and may require additional resources in the future to



resolve. The METS DIME database was also proposed as a possible solution to capture testing data as well, however, significant resourcing and modification would be needed.

c. Housekeeping – Current Print Out Package, Participant Memos, 2014 Calendar

Mr. Petska briefed the new 2015 RPC Calendar to the group. No issues were noted.

The OSM Website was also presented for the group. It was noted that final meeting minutes from previous meetings were now posted onto the Concrete Task Group website at: http://www.dot.ca.gov/hq/esc/Translab/OSM/rpc_concrete_task_group/index.htm

d. “State of the Industry” Address

Mr. McDonald indicated that he was happy with the TG and STG progress on activities at this time, and that Industry had no significant concerns. He expressed the importance of the meeting minutes and the continuous communication within the RPC.

Mr. Rea led a discussion on the Materials Testing Task Force, and noted that there were some significant efforts involved in the joint tester qualification portion of the activity. He noted that the location of the qualification testing and the funding mechanisms for testing processes were still under discussion.

There was also a discussion regarding the test turnaround time activity that was underway within this Task Force. Mr. Rea noted that various discussions between CT Construction and Industry are being considered here in an effort to come to an equitable solution that meets Department needs and Industry considerations.

e. Updates from Sub Task Group co-chairs

a. CIP Pavement Subtask Group

Mr. Farnbach gave an overview of the current activities in the CIP Pavement STG on behalf of Deepak Maskey.

Initially, the “COTE Testing” activity was discussed, and it was noted that the final report was complete and posted onto the TG Website. This activity is at 100% complete.

For the “Dowel Bar Tolerance” activity, Mr. Farnbach noted that work is underway and that NDT Test Methods were currently being considered by the project team. The TG Co-Chairs noted the use of these NDT methods for this activity would result in substantial personnel costs,



and that the project team should consider other pre-pour and during-pour quality control requirements that would be more efficient and cost-effective. It was also noted that ASNT non-destructive testing certification requirements may be needed for this dowel detective device alternative. The TG Co-Chairs encouraged the STG and the project team to revisit the approved Scoping Document which calls for the development of various Contractor quality control alternatives, and requires the TG to evaluate the project team's interim report and recommendation. An action item was noted to send a report to the TG related to the evaluation of the various quality control options for Dowel Bar tolerance.

For the "Flexural Beam Testing" activity, Mr. Maskey provided an overview of the recent activities that have been taking place at the project team level. He noted that a survey has been developed to show the various manners in which pavement quality assurance is being performed within different agencies. Mr. Maskey also discussed the various topics and discrepancies that were discovered as part of the survey, including the means and methods for sample creation. There was also a discussion regarding the background information for CTM523, and it was noted that there was no archive information discovered at this time. It was noted that progress is well underway and that there will be updates to provide at Task Group meetings in the coming months. It was noted that this activity was about 50% complete.

Mr. Farnbach also briefed the ongoing "Volumetric Mixing equipment" activity for rapid strength concrete pavement. It was noted that the clause this activity refers to may be taken out of the specification in the future while the project team evaluates whether there is indeed significant quality difference between the types of concrete that utilize volumetric mixing equipment. More discussion on these topics will be taking place in the future.

It was also noted that there are several "Roller Compacted Concrete" pilot project activities underway at this time that utilize the final nSSP. These activities are taking place within District 7. It was noted that any refinements to the specification would be considered outside of the RPC. The activity would be removed from the CIP Pavement activity tracker at this time.

The TG next noted that there would be a "Pavement Concrete Overlay" working group meeting would also be taking place on February 11, February 24, and February 26 at various locations throughout California [More information on the various meeting dates and working groups for this activity are included as attachments to these meeting minutes].

For the "Continuously Reinforced Concrete Pavement" topic, Mr. Maskey noted that he has been working with Mike Plei from Industry to review existing standard plans for this procedure.

The Bin List items were next discussed. A new proposed Bin List was discussed and agreed upon at this time.



b. Precast Subtask Group

Mr. Hoffman and Mr. Ohlwiler went through an update on all of the current Precast STG activities at this portion of the meeting.

For the “Precast Pavement” activity, Mr. Hoffman noted that the final version of the precast pavement specification has been developed. It was noted that routing of the specification would be taking place in the coming weeks.

The next item Mr. Hoffman discussed was the “Prestressing Jack Calibration” activity. He noted that project team meetings would be taking place in the coming days, and the draft specifications are being developed at this time. The activity was now at about 50% complete as of January 2015.

Mr. Hoffman also briefed ongoing Bin List items, such as the use of ASTM C1567 for the evaluation of cementitious materials and aggregate in Precast members. An action item was noted to conduct additional discussion on this topic at the STG level, and add to the STG Bin List.

The group next discussed a potential Bin List Item for further refinements for Precast Pavement. It was noted that Construction guidance would be needed to refine the quality control and quality assurance process. This was added to the list of activities that would be pursued in 2015 with new Scoping Documents. An action item was noted to add this, as well as the activity regarding DIME for Precast QC and QA Testing Results and Mix Designs, to the list of activities with newly-needed Scoping Documents.

c. Concrete Materials/QA Subtask Group

Mr. Hoffman briefed the updates to the current Materials/QA STG projects.

For the “QCQA” activity, Mr. Hoffman briefed the latest deliverables on this activity. Mr. Hoffman also noted that the last Draft of the specification is currently undergoing final review, and any additional comments would be addressed by John Lammers as the project team lead.

For “Recycled Concrete”, Mr. Hoffman gave an overview of the discussions at the most recent activities as part of this activity. The new specification was completed pending final routing to mandatory stakeholders, and that the recycled concrete batch plant endorsement would be captured into the new updates for the MPQP program document. It was noted that the MPQP updates would still need to be finalized, and that a follow up on the status of the approval would be needed by Construction.



Mr. Hoffman next discussed the “Shotcrete” activity. It was noted that project team meetings on this topic would continue in the days ahead. He noted that an updated specification has been routed to the project team at this time. It was noted that cementitious materials requirements for Shotcrete currently include a 675 CY limit, but that further discussions would be taking place regarding the specification in the future.

At this time, there was also a brief discussion regarding Mix Design number uniformity to allow for better long-term Data analysis via the Department’s DIME database. This item was kept on the Bin List for the future, and discussion would continue on this topic with Industry members of the Materials/QA STG in the coming weeks.

The Bin List Items for the Materials/QA STG were next discussed at this portion of the meeting. An action item was noted to update the list for future meetings.

f. Roundtable Discussion, questions, and action items

A brief roundtable discussion occurred regarding the updates to the Standard Plan updates for Drainage Inlets. An action item was noted for Industry to provide a white paper on their concerns regarding this activity, and the impacts they believe may occur with any impending changes to the specification.

Below is the summary of decisions made or consensus received during the January 8th meeting.

- Update Bin Lists based on discussions from STG Co-Chairs (See below)

Below is the brief summary of action items from the January 8th meeting:

Action Items from 1/8/15 meeting	Due Date	Responsible Person	Status
Forward future Precast Pavement comments to the TG Co-Chairs for information	31 Jan 2015	Bobby Petska	Pending
Send Task Group Operating Principles to the Task Group for Comment and Annual Update	15 Jan 2015	Bobby Petska	Complete
Review Task Group Operating Principles for 2015 Annual Update	8 Feb 2015	All TG Co-Chairs	Pending
Creation of White Paper on the MPQP Activity which describes the issues related to Precast	9 Apr 2015	Cliff Ohlwiler	Pending



Drainage Inlets			
Create Scoping Documents noted for the various STGs for discussion at next TG Meeting	26 Mar 2015	All STG Co-Chairs	Pending
Update Bin List Items for each STG	9 Apr 2015	Bobby Petska	Complete
Per the "Dowel Bar Tolerance" activity Scoping Document, send report to the TG related to the evaluation of the various NDT methods and the use of MIT Scan technology for Dowel Bar tolerance	9 Apr 2015	Deepak Maskey/CIP Pavement STG	Pending

New Scoping Documents/Bin List Items based on TG Consensus

CIP Pavement STG

1. (Scoping Document for 2015) – Volumetric Mixing Equipment specification and operator training
2. (Scoping Document for 2015) – Resolution & evaluation process for low-strength, non-conforming pavement (joint effort with M-QA STG)

Precast STG

1. (Scoping Document for 2015) – QC and QA Testing Results and Mix Designs for Precast Facilities
2. (Scoping Document for 2015) – Precast Pavement Construction quality control guidance and training plan
3. MPQP for Precast Facilities
4. Shifting ASTM C1567 requirements from 3 to 5 years for Precast Concrete

Materials/QA STG

1. (Scoping Document for 2015) – Concrete Mix Design Number Tracking System
2. Separate out ASR Requirements from Green Specification requirements
3. Recycled Concrete specifications for crushed concrete as aggregate
4. Performance Based specifications for structural concrete
5. Smog Eating Concrete